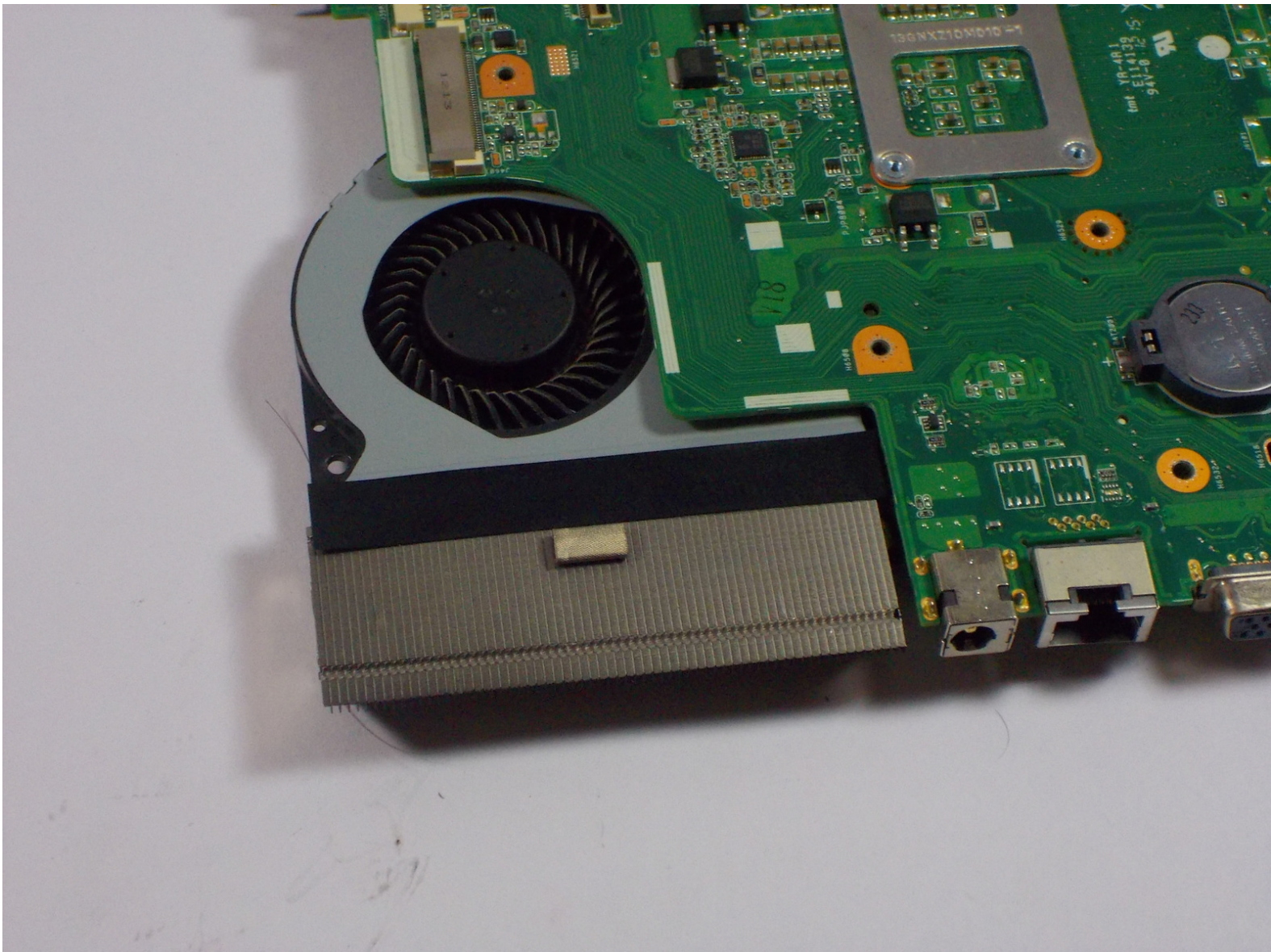




ASUS X44H-BBR4 Fan Replacement

Replace the fan in your ASUS X44H-BBR4 laptop.

Written By: Devaj Ramsamooj



INTRODUCTION

Use this guide to help you replace a broken or damaged fan that may be causing overheating issues and other problems with your laptop. Don't forget to keep track of all your screws.



TOOLS:

- [iFixit Opening Tools](#) (1)
 - [Spudger](#) (1)
 - [Phillips #0 Screwdriver](#) (1)
-

Step 1 — Battery



- Flip the device over.

Step 2



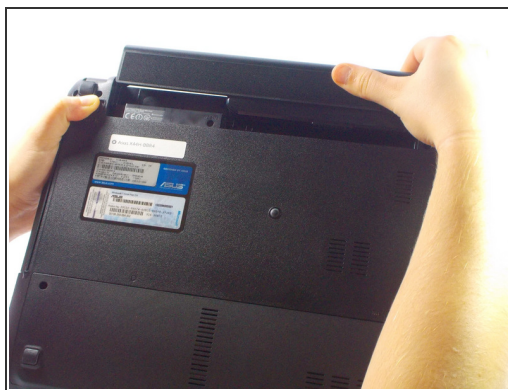
- Slide the right lock button to the unlock position.
- After it is unlocked, a red line will be visible.

Step 3



- Slide the left lock button into the unlock position and hold.

Step 4



- While holding the left lock button in the unlock position, push the battery from the center away from you.

Step 5 — Keyboard



- Open the laptop to show the keyboard.

Step 6



- Look at the top row of the keyboard, you will see a space that has four latches holding the keyboard down.
- ⓘ The latches are located above the Esc key, the F5 key, between the F10 and F11 key and the Delete key.

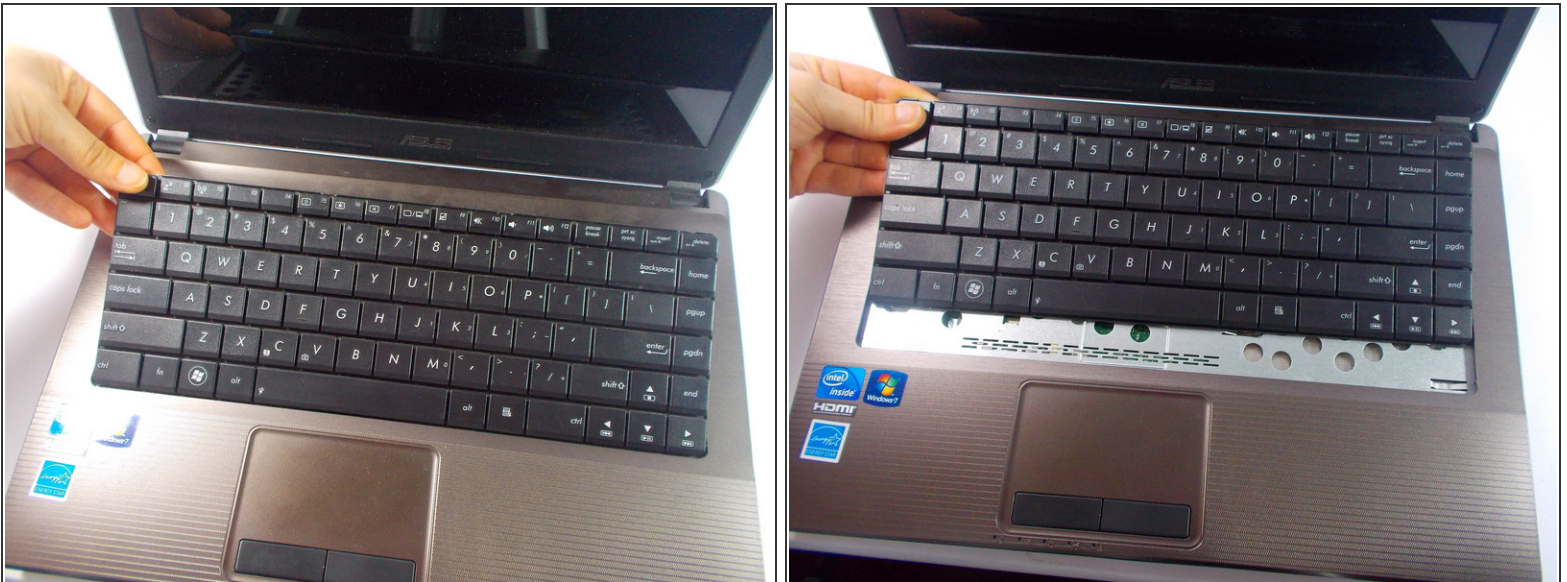
Step 7



! Don't pull too hard on the keys otherwise they may fall off.

- Push the latch away from the keyboard using the spudger point.
- While pushing the latches use a plastic opening tool and pull up on a key near it.
- Continue along the rest of the keyboard until it is released at all four latches.

Step 8



- Push the keyboard away from the mouse track pad to unlock the bottom from the base.

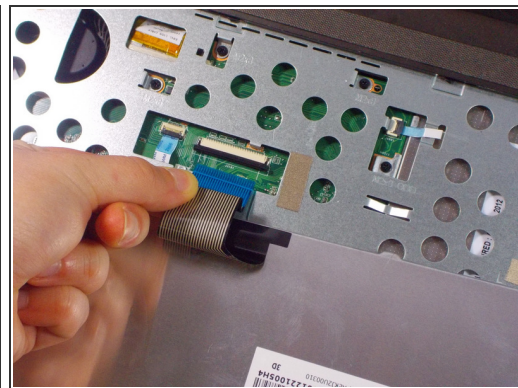
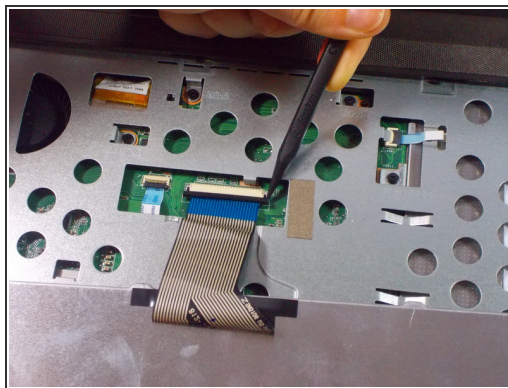
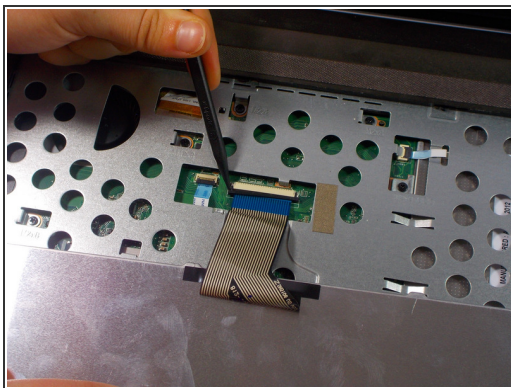
! Do not pull too hard because there is a ribbon connecting to keyboard to the motherboard.

Step 9



- Flip the keyboard over to reveal the back of it and what is underneath.

Step 10



- Pull each end of the black ribbon cable piece towards the mouse track pad to unlock the ribbon connector piece.
- Gently pull out the ribbon cable from the connector piece.

Step 11



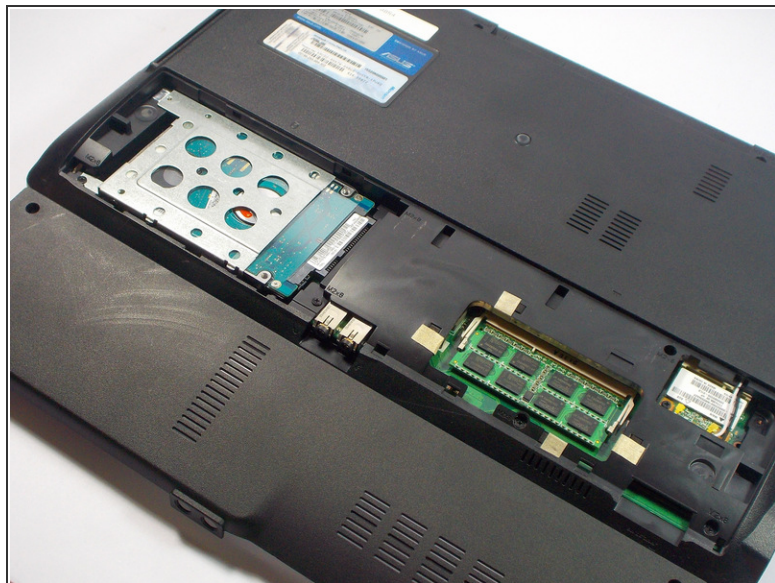
- Remove the keyboard completely.

Step 12 — Hard Drive



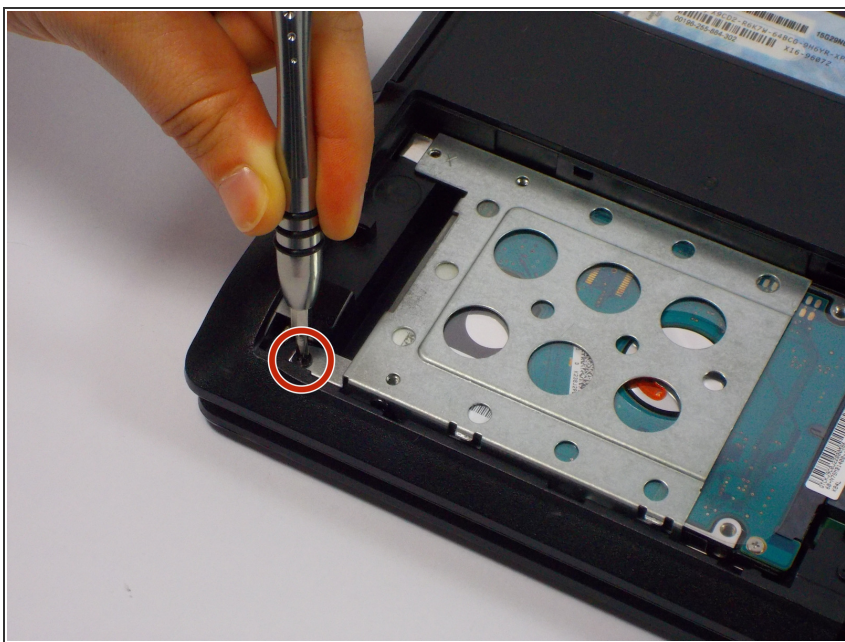
- Remove the two 9 mm Phillips head screws with the PH0 bit indicated by the red circles in the picture.

Step 13



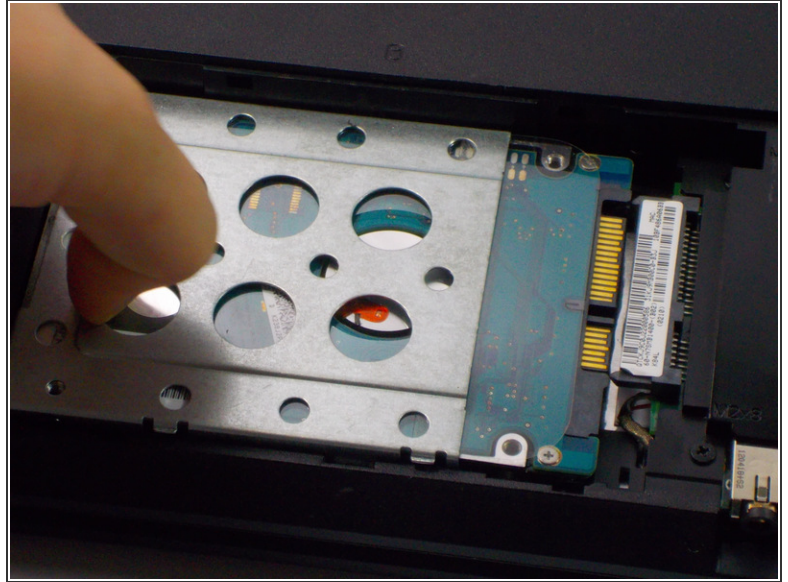
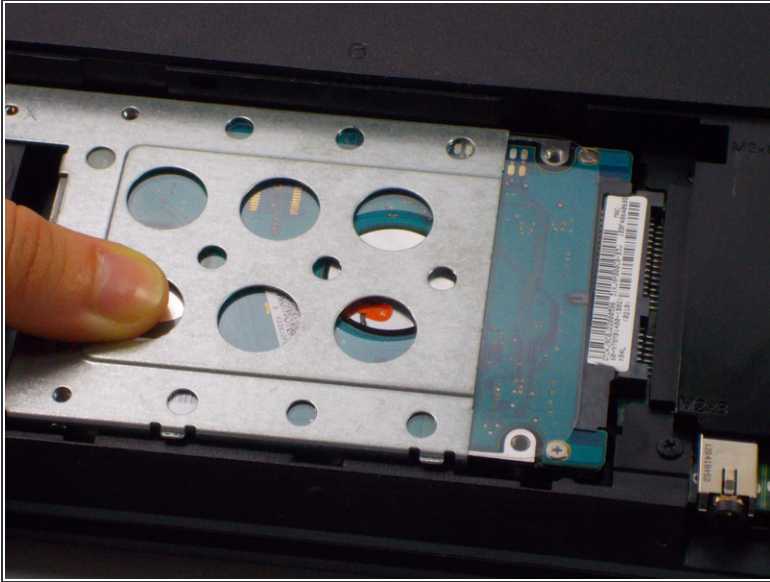
- Once the screws are removed, slide the back panel away from the computer.

Step 14



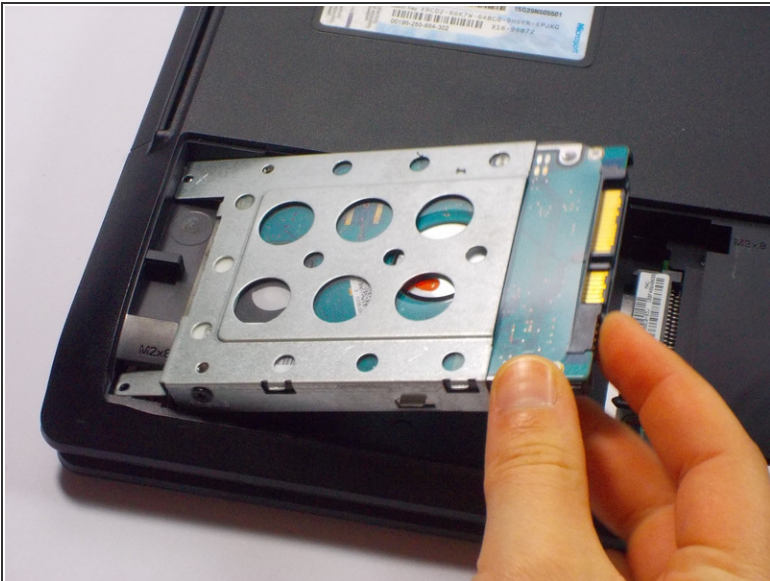
- Remove the 9mm Phillips head screw in the left bottom corner of the hard drive with the PH0 bit.

Step 15



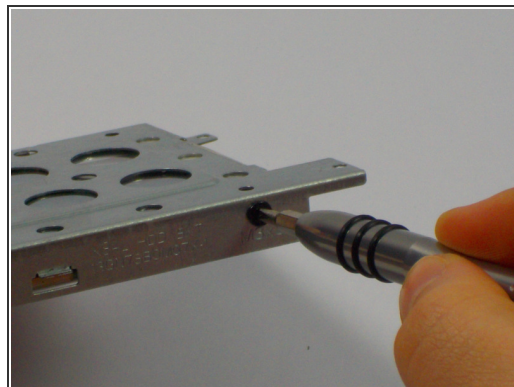
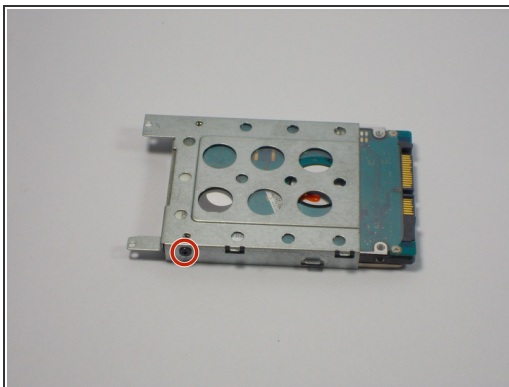
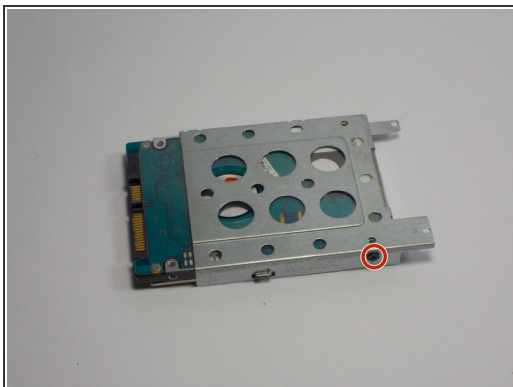
- Slide the hard drive to the left, unlocking it from its default position.

Step 16



- Pull the hard drive upwards and take it out of its position.

Step 17



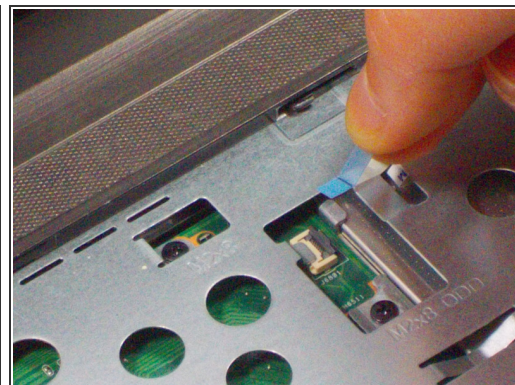
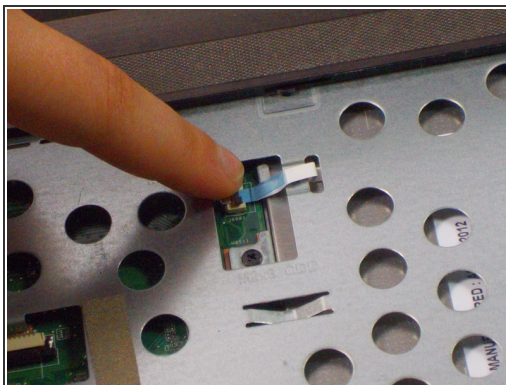
- Remove two 3mm Phillips head screws, one located on each side of the metal casing holding the hard drive using the PH0 bit.

Step 18



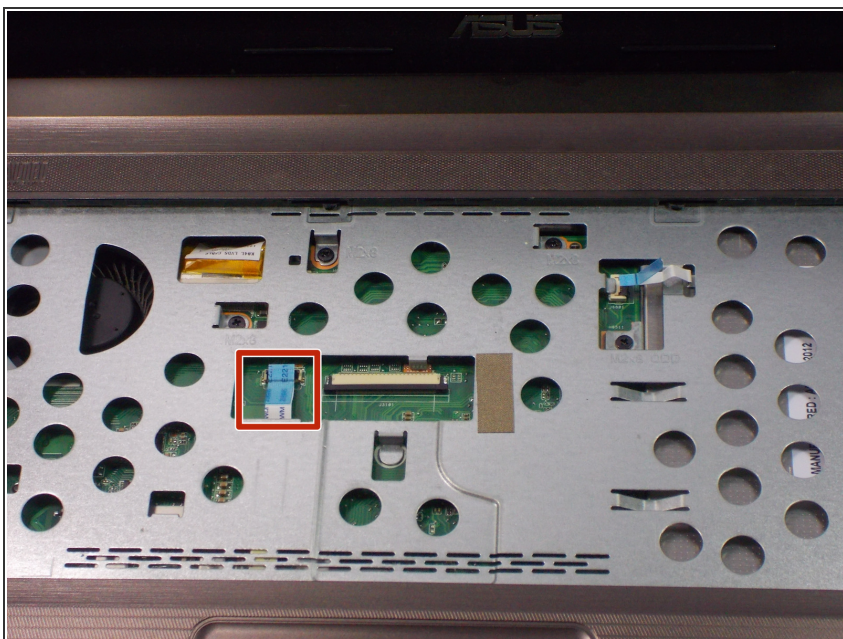
- Pull upwards on the metal casing and it will come off.

Step 19 — Front Panel



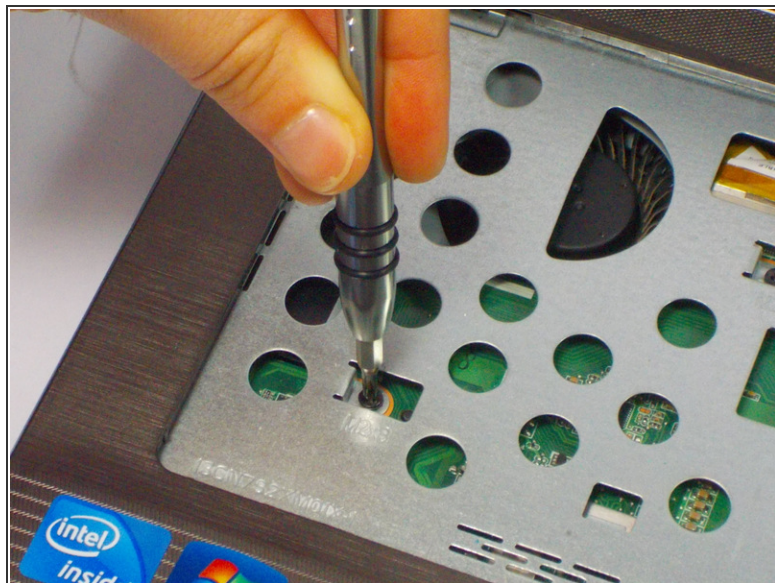
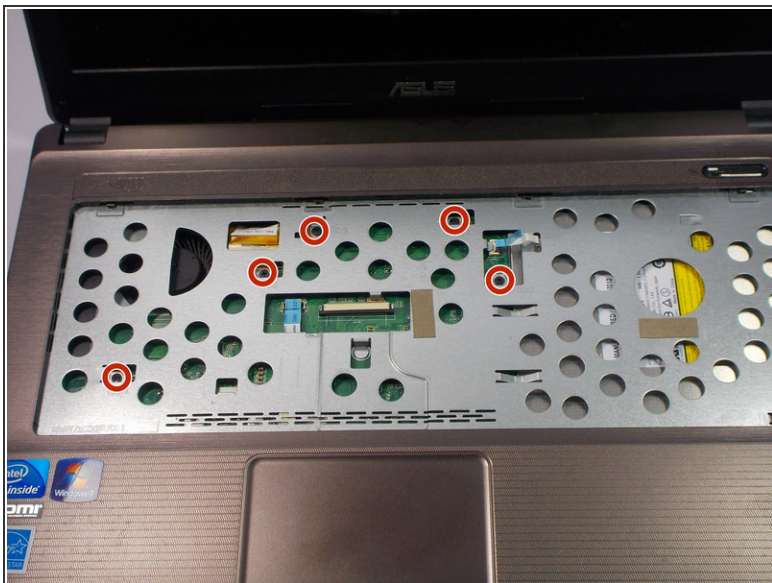
- Lift up the black lock holding the ribbon.
 - Using the blue tab, pull out the ribbon.
- ⚠ Pull gently on the ribbon to remove the risk of damaging the ribbon.

Step 20



- Lift up the black lock holding the ribbon.
 - Using the blue tab, pull out the ribbon.
- ⚠ Pull gently on the ribbon to remove the risk of damaging the ribbon.

Step 21



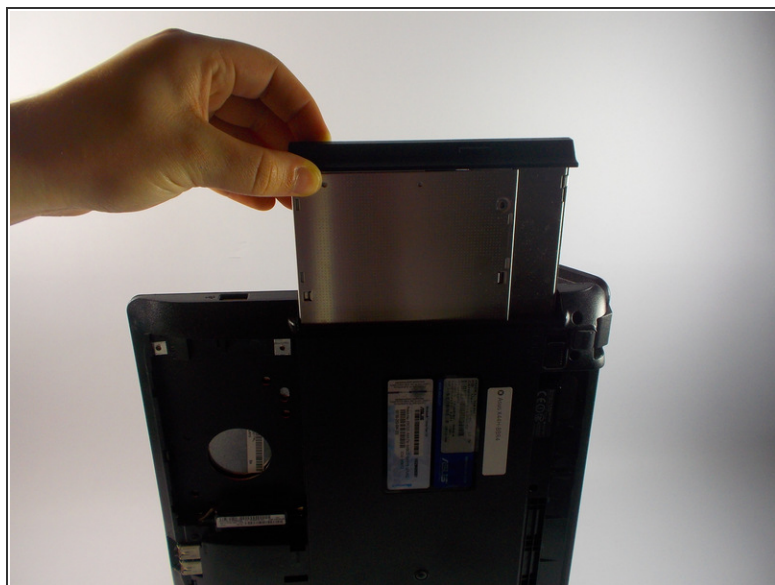
- Remove the five 9 mm Phillips head screws with the PH0 bit.

Step 22



- Flip the laptop on its side so that the red line indicated in the pictures is facing upwards.

Step 23



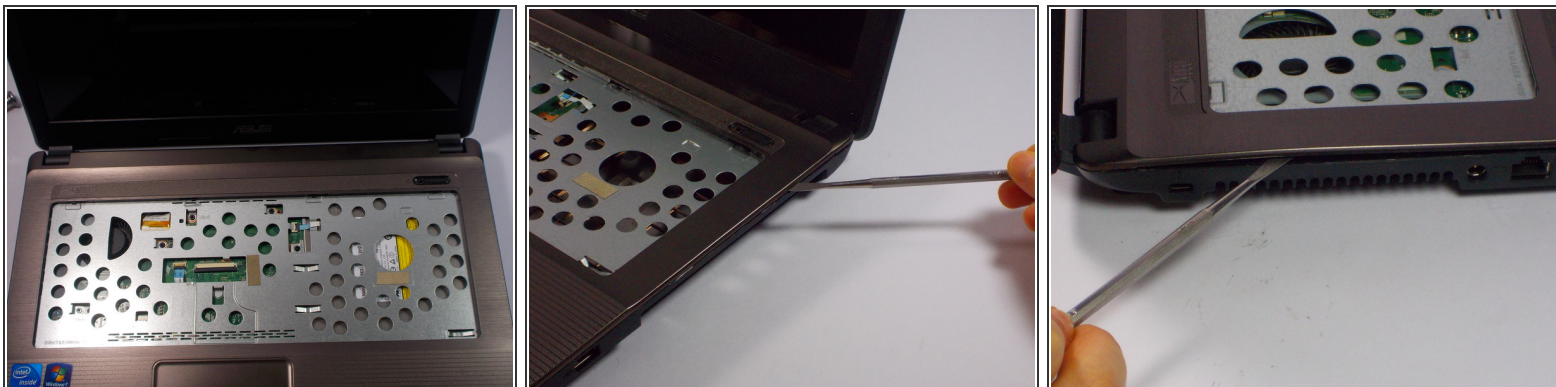
- Pull up on the disk drive and remove.

Step 24



- Close the laptop and flip it over.
- Remove the six 12.5 mm screws Phillips head and the five 9 mm screws remaining with the PH0 bit.

Step 25



- Flip the device back over and open the laptop.
- Using the nylon or metal spudger, gently pry off the panel by moving the spudger along the seam.
- ⓘ You should hear clicking sounds as the front panel is being removed from the base.

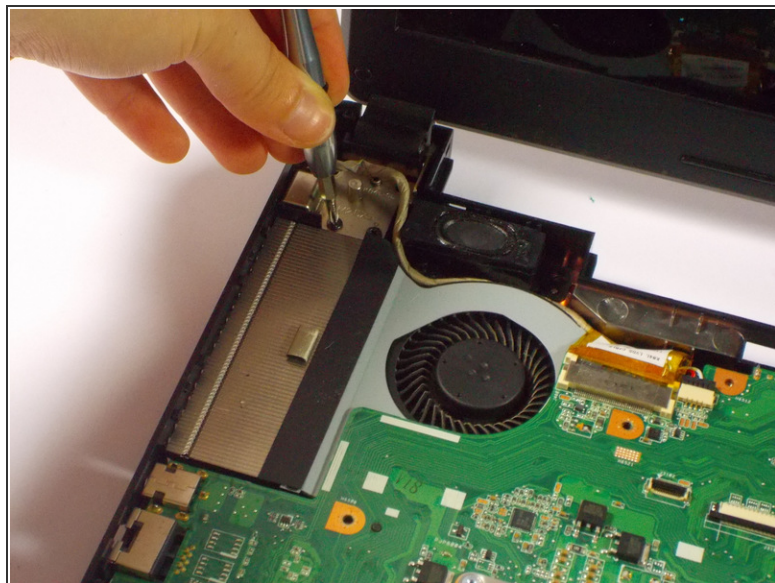
Step 26



- Remove the panel.

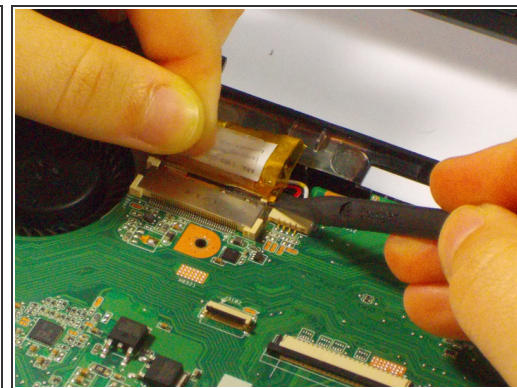
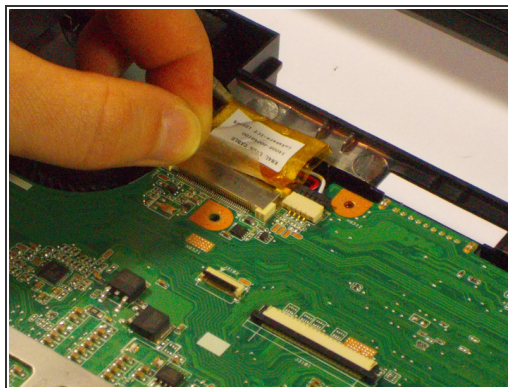
⚠ The laptop will now become heavier to the front so it will tend to fall on the back side of the screen.

Step 27 — MotherBoard



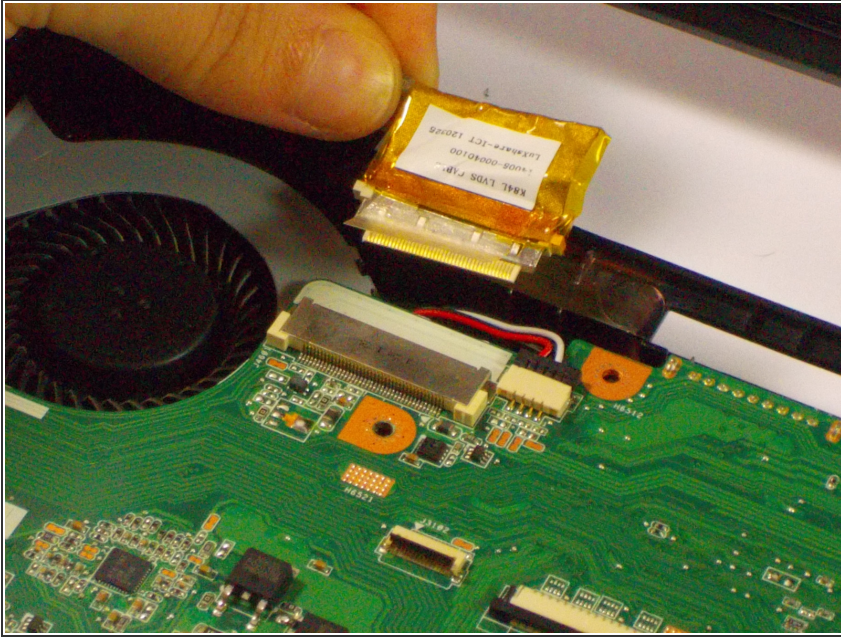
- Remove the 5mm Phillips head screw using the PH0 bit.

Step 28



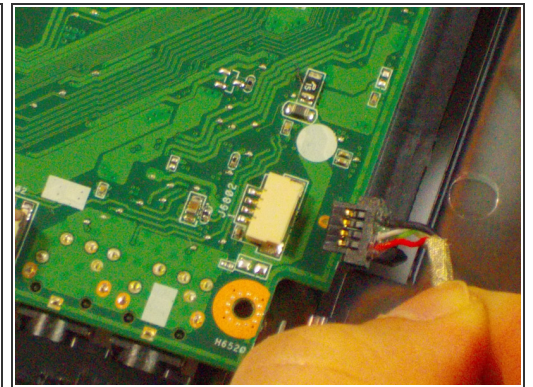
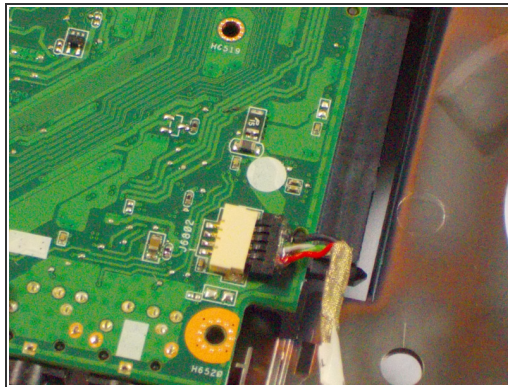
- Pull up on the tape holding the tan cable in place.
- While holding the tape push up on each side of the cable connector to disconnect it.

Step 29



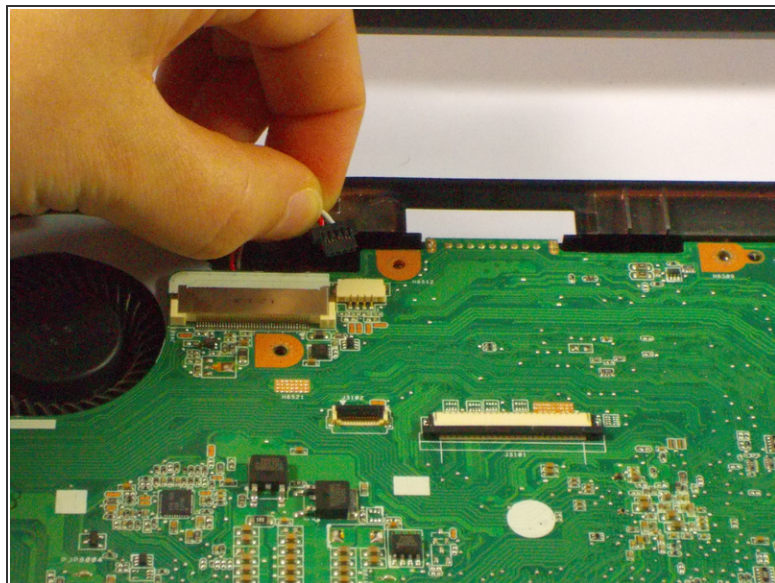
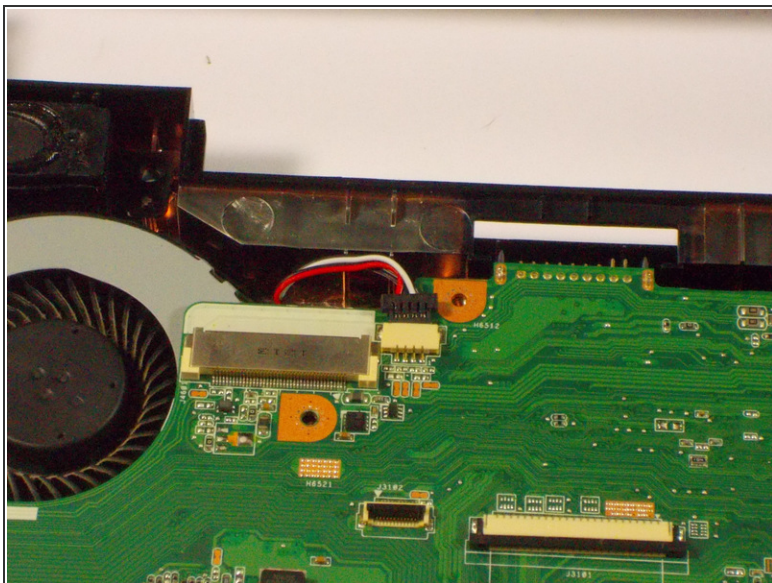
- Gently pull out the cable connector.

Step 30



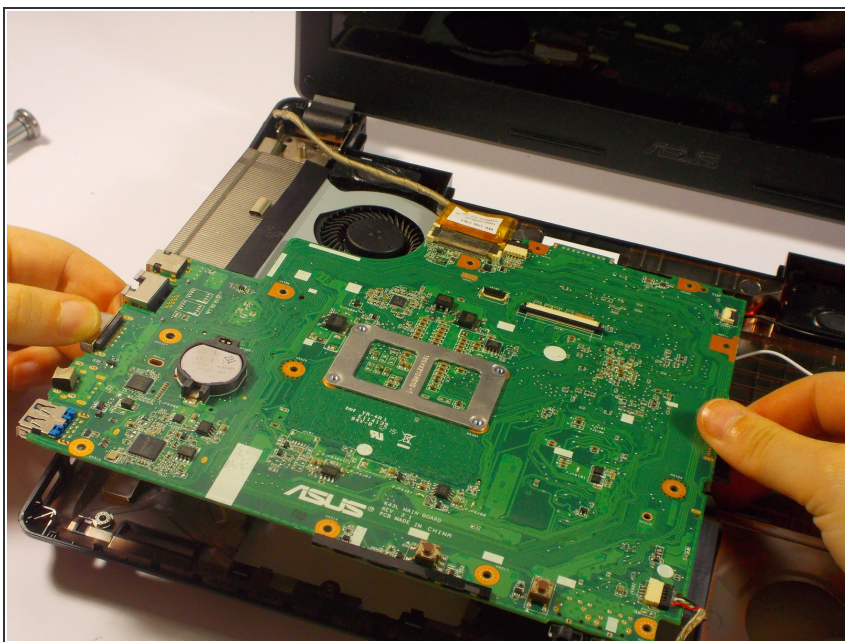
- Gently pull out the USB connector attached to the motherboard.

Step 31



- Remove the red and white wire connector next to the fan.

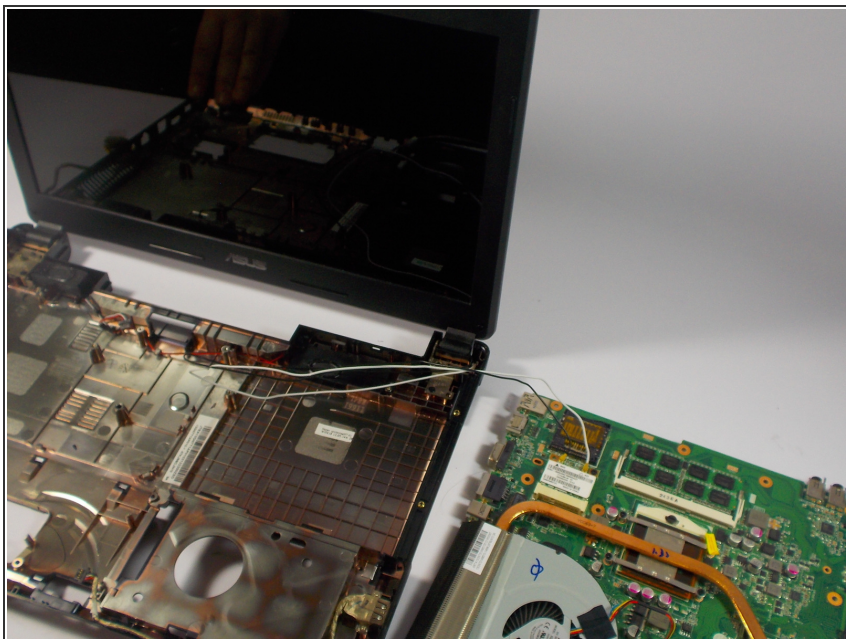
Step 32



- Take out the motherboard

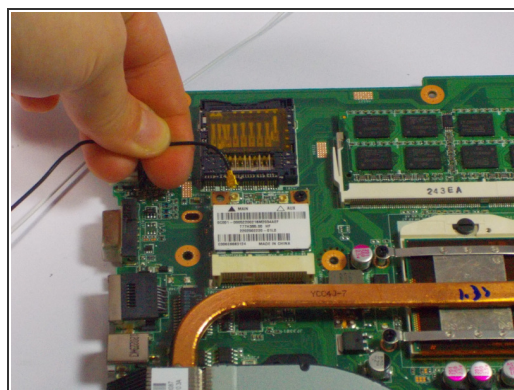
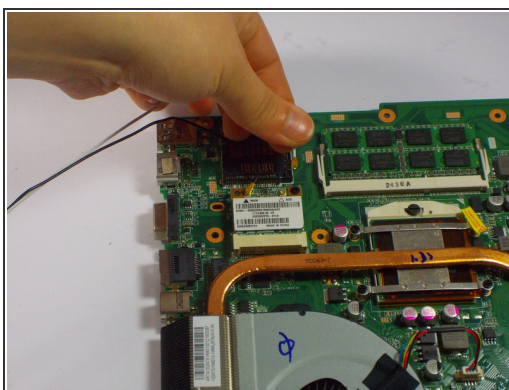
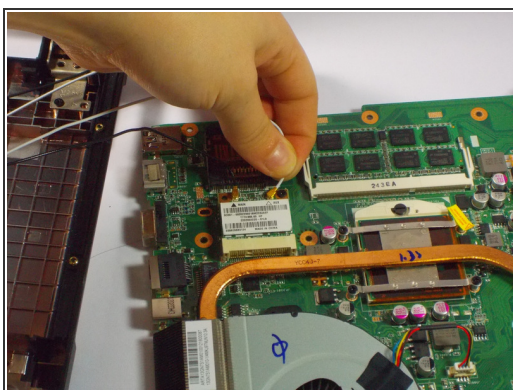
⚠ There are still two wires connected to the bottom of the motherboard so remove carefully.

Step 33



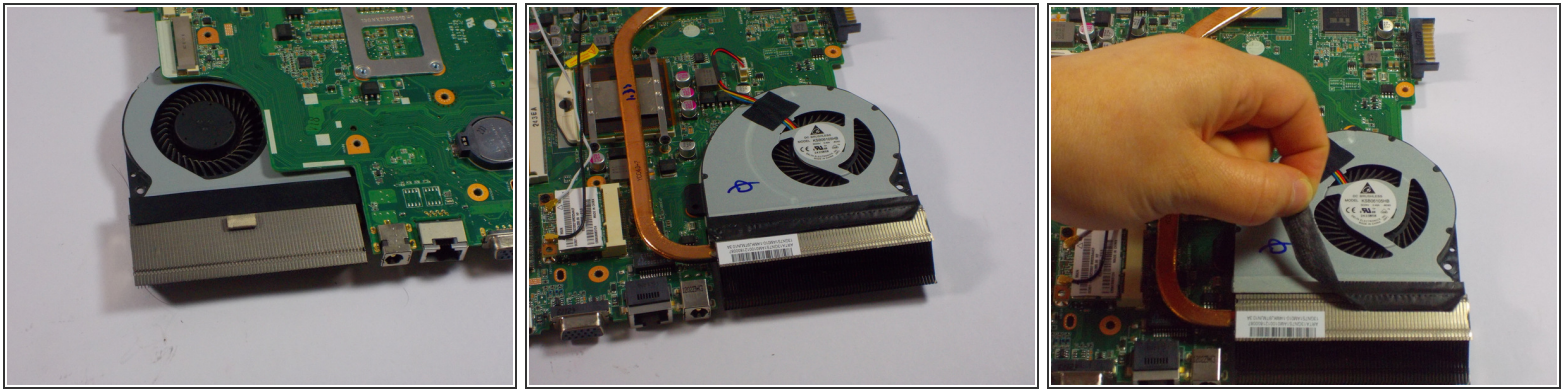
- Flip the motherboard over next to the laptop base.

Step 34



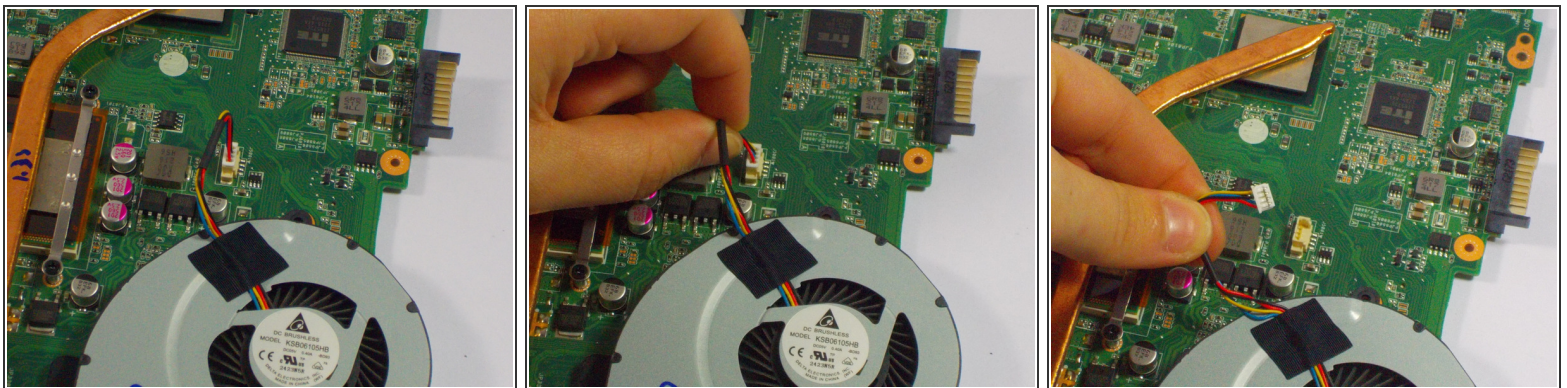
- Remove the white and black wire.
- The motherboard is not completely separated from the base of the computer.

Step 35 — Fan



- Remove the black piece of tape located on each side of the fan and vent, connecting the two components.

Step 36



- Pull up on the four wires (red, yellow, blue and black) connecting the fan to the motherboard.
- Remove fan by pulling it upwards.

To reassemble your device, follow these instructions in reverse order.

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